



PATENT ABSTRACTS OF JAPAN

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**OKUDA SHINJI
MAEDA HIROSHI
NAGATA TAKESHI**(54) **LIQUID LEVEL DETECTING DEVICE**

(57) Abstract:

PURPOSE: To easily detect the presence/absence of a liquid, such as an applying liquid with a simple constitution, the container of which is not restricted in material, by enclosing a detecting and heat producing elements in a casing in which the elements are dipped in a liquid.

CONSTITUTION: A thermistor 73 is enclosed in a casing 74 and the surrounding area of the thermistor 73 is filled up with a filler 75 which seals the front end section of the casing 74. The surface of the filler 75 is covered with the brazed section 75a at the front end of the casing 74. Moreover, the casing 74 is charged with a synthetic resin 75b so as to cover the thermistor 73. The casing 74 is dipped in a liquid to be detected while an electric current is made to flow to the thermistor 73. When the liquid exists around the thermistor 73, the heat produced from the thermistor 73 is absorbed by the liquid and the temperature of the thermistor 73 is low, but, when the liquid level is low and no sufficient quantity of liquid exists around the thermistor 73, the temperature of the thermistor 73 rises and the resistance value of the thermistor 73 changes, because the quantity of heat radiated from the thermistor 73 becomes less. A detection circuit 76

detects a change in the resistance value of the thermistor 73 and outputs a signal indicating the lowering of the liquid level.

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